

S/N 10/022,095

PATENTAmendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Previously Presented) Sealing device for a rolling contact bearing comprising:
two races which are coaxial to each other, defining inner and outer sides;
two inserts which are made of metal material and which are each coupled to a relative race;
at least one sealing lip which extends between the two inserts; and
a phonic wheel which is supported by a more external of the two inserts;
wherein the more external of the two inserts comprises an annular housing for supporting and at least partially containing the phonic wheel, the annular housing axially opening towards the outer side of the bearing and including a shield which is made of a vulcanised rubber material arranged in such a way as to completely seal the phonic wheel and the housing.
2. (Previously Presented) Sealing device according to Claim 1, wherein the housing is radially delimited by a first and a second cylindrical wall which form part of the more external insert; wherein the first cylindrical wall defines an internal radial support for the phonic wheel, and the second wall defines an annular channel with the other insert.
3. (Previously Presented) Sealing device according to Claim 2, wherein the second wall presents a cylindrical edge, which is folded towards the other insert and which defines an outer radial limit for the shield made of vulcanised rubber.
4. (Previously Presented) Sealing device according to Claim 3, wherein the shield comprises two opposite radial ends which respectively define a static seal against a race of the bearing, and a dynamic seal which substantially seals the annular channel.
5. (Previously Presented) Sealing device for a rolling contact bearing comprising:

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two races which are coaxial to each other, defining inner and outer sides;
two inserts which are made of metal material and which are each coupled to a relative race;
at least one sealing lip which extends between the two inserts; and
a phonic wheel which is supported by a more external of the two inserts;
wherein the more external of the two inserts comprises an annular housing for containing the phonic wheel, the annular housing axially opening towards the outer side of the bearing and including two sidewalls that are orientated at oppose side edges of a phonic wheel; and
a shield which is made of vulcanised rubber material that spans the sidewalls and is arranged in such a way as to completely seal the phonic wheel in the housing.

6. (New) Sealing device for a rolling contact bearing comprising:
two races which are coaxial to each other, defining inner and outer sides;
two inserts which are made of metal material and which are each coupled to a relative race;
at least one sealing lip which extends between the two inserts; and
a phonic wheel which is supported by a more external of the two inserts;
wherein the more external of the two inserts comprises an annular housing for supporting and at least partially containing the phonic wheel, the annular housing axially opening towards the outer side of the bearing and including a shield which is made of a vulcanised rubber material arranged in such a way as to completely seal the phonic wheel and the housing;
wherein the housing is radially delimited by a first and a second cylindrical wall which form part of the more external insert, the first cylindrical wall defines an internal radial support for the phonic wheel, and the second wall defines an annular channel with the other insert;
wherein the second wall presents a cylindrical edge, which is folded towards the other insert and which defines an outer radial limit for the shield made of vulcanised rubber; and
wherein the shield comprises two opposite radial ends which respectively define a static seal against a race of the bearing, and a dynamic seal which substantially seals the annular channel.